Clarion

2005 Product Application Guide

Clarion

CLARION CORPORATION OF AMERICA
661 W. Redondo Beach Blvd., Gardena, CA 90247-4201 U.S.A.
Tel 310.327.9100 Fax 310.327.1999 **www.clarion.com**

CLARION CANADA
2239 Winston Park Dr., Oakville, Ontario L6H5R1 Canada.
Tel 905.829.4600 Fax 905.829.4608 **www.clarioncanada.com**

LATIN AMERICA DIVISION
7205 Corporate Center Drive, Suite 303, Miami, FL 33126 U.S.A.
Tel 305.406.0999 Fax 305.406.0964 **infolac@clarion.com**

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WARRANTY

All Clarion products are covered by a Limited One-Year Parts and Labor Warranty. All Clarion ProAudio products except speakers are covered by a Limited Two-Year Parts and Labor Warranty when installed by an authorized Clarion Dealer.

WARNING: Driver is prohibited by law from viewing a video signal on any in-dash monitor while the vehicle is in motion.

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General Information

Guide Overview

Welcome to Clarion's 2005 Application Guide. This year we're doing things a little different … think of it as a new direction for Clarion's annually published App. Guide. Our goal this year is to provide you with 40 pages of "key points" and "must mentions" when talking about Clarion's 2005 Product Line — like we've done in previous years. What's new is "Part 2," a CD-ROM geared toward the technical side of Clarion's 2005 product line.

Part 2 speaks to the importance of computers in today's business environment — the tool of successful 12-volt dealers. If you're not familiar with them, this guide will definitely be a good first step. Stored on this disk are solutions for the guys and gals in the installation bay, such as an opportunity-driven suggestion on how to take advantage of Clarion's revamped 2 Zone Entertainment feature, which outfits the all-new iPod-ready VRX755VD.

The CD-ROM also offers system diagrams and in-depth product specs. The best way to take advantage of this great tool is to have your installers print out the files and start a Clarion product application folder — something they don't have to worry about ripping or getting dirty.

Before you read on take a look at the key contact information listed below. These are the phone and fax numbers to keep you in constant contact with Clarion.

Dealer Tech Hotline
(800) 366-3567

The hotline is available to all authorized Clarion dealers Monday through Friday, 8 a.m.-5 p.m. P.S.T. Once connected, you will be directed to one of Clarion's tech-savvy experts, who will be more than happy to assist you with any questions. (Note: Dealers can also leave a voice mail message during non-business hours)

Consumer Hotline
(800) Go-Clarion

By calling the Consumer Hotline your customers will always know what's going on at Clarion. Ordering catalogs, wearables, and more can be done by calling this number. Best of all, your customers can find out about new product releases, how to find a service center and authorized Clarion dealers. All of this information can also be found at the Clarion Website: www.clarion.com.

Customer Service/Parts:
(800) 347-8667

If you're in need of service, parts, or manuals, this is the number you need to have handy. Available Monday through Friday, 7 a.m.-5 p.m. P.S.T. — dealers can also order parts and manuals.

Sales and Information:
Voice: (800) 733-3336
FAX: (310) 768-3380
www.teamclarion.com

Located at 661 West Redondo Beach Boulevard, Gardena, CA 90247, Clarion Corporation of America is open and ready to serve you Monday through Friday, 8 a.m.-5 p.m. P.S.T. To contact Clarion direct, call (800) 733-3336. To place an order with Clarion, visit the company's 24-hour Extranet site at www.teamclarion.com.

Ins and Outs of Clarion's www.teamclarion Website

For years Clarion's Fax Back system has served Clarion's authorized dealers well. But did you know there's an even better — easier way — for your installers to get installation support? And no, we're not talking about Clarion's Dealer Tech Hotline ((800) 366-4567).

What we're talking about is Clarion's www.teamclarion.com Extranet site. Yes, this is where storeowners and store buyers can order and track product. This site also contains a wealth of information related to vehicle wiring, product bulletins, and much more. If your installers don't have an account, you're shop is definitely missing out on a key business tool.

How to Get Started

Storeowners, when you set up your sales staff and installers with an account you don't have to worry about them being able to access your personal information. Clarion limits what your staff can see based on their title at the store.

Step 1: Go to www.teamclarion.com and click on the "Request an Account" selection.

Step 2: Fill out the account request form. This step will require the store's account number.

That's all it takes. From there, Clarion will send an e-mail within 24 hours to let you know that the account has been created. Now, let's take a tour:

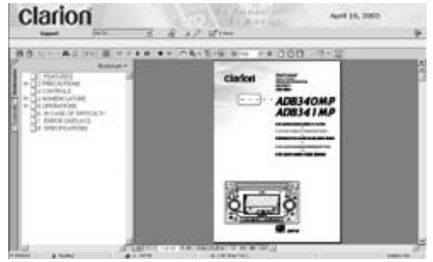
Finding Product Manuals:

Step 1: Log onto the www.teamclarion.com and enter your username and password.

Step 2. From the home page, click on the drop-down menu located at the top of the screen, and select "Support." (Note: The homepage is where Clarion's Marketing Department posts its monthly e-newsletters and press releases.)

Step 3: Once "Support" is selected you will be taken to another menu screen. Select "Manuals."

Step 4: Once the page opens you will notice the Application Guide, Door Lock Diagrams, FAQs, Product Manuals and Bulletins, and Software Updates are also stored here. Now, select source units within the "Manuals" category.



Step 5. The next page that opens will list all of Clarion's source units. For example, select the ADB340MP.

Step 6. You will then find the manual stored in four languages. Select the English version: ADB340MP-ENG.pdf.

Step 7: Once the file opens, you can either save it to your computer, or print it out.

Getting Wired

To access Clarion's wiring diagram database, click the drop-down menu and select "Wiring Info." Next, enter the make, model and year of the vehicle you're looking for. That's all it takes.

Clarion's Fax Back System

The Clarion Fax Back ((310) 217-4307) system is available to all authorized Clarion dealers 24 hours a day, seven days a week. Aside from the www.teamclarion.com Extranet site, this is the quickest way to receive the latest information on vehicle wiring, product information and tech tips.

Clarion UNGO
FAX BACK PROGRAM
Phone: 310.217.4307
PRODUCT INFORMATION
AUTOMOBILE WIRING

How to Use Clarion's Fax Back System

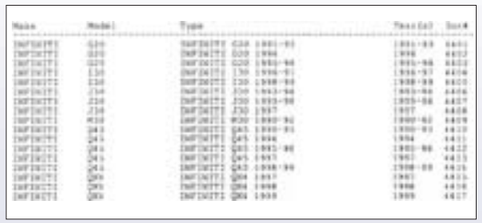
To begin using the Fax Back service, you'll need to make three phone calls. The first will walk you through how to obtain a Fax Back main cover page. The cover page contains a listing of vehicle manufacturers and diagrams. The second call will allow you to receive a catalog of vehicles from a particular manufacturer or a specific diagram. The final call will allow you to order the wiring diagram(s) of the specific vehicle you're working on.

Ordering the Main Cover Page

To order the Main Cover Page call the Fax Back number and order the "Catalog of Available Documents." When this document arrives at your fax machine you will be ready to proceed to the next step.

Ordering a Model Year Page

Using the Main Cover Page you'll be able to order a catalog of available diagrams from a specific automobile manufacturer. Each vehicle has an assigned document number which is stored in the Fax Back database.



Ordering a Vehicle–Specific Page

Once you have received the vehicle catalog you can order a detailed wiring diagram of the vehicle you are working on. We suggest you keep the main cover page and any vehicle catalogs you order. This will save you time when ordering documents in the future.

If you should encounter any problems or require any assistance using the Fax Back system, please contact our Dealer Tech Support line at (800) 366-4567.

Clarion

Part Tour Guide, Part Personal Entertainer … N.I.C.E.

Clarion's new Navigation In-Car Entertainment (N.I.C.E.) system does more than address today's hottest in-car electronics features. It also takes on today's biggest challenges, such as OEM integration and the industry's pursuit of that all-important disposable dollar. Why? N.I.C.E. can integrate with any existing stereo, and its transportability and host of entertainment- and information-related options make it one heck of an investment.

So what is N.I.C.E. (pronounced [*nīs*])? It's Clarion's answer to tomorrow's "infotainment age," offering what's hot in today's marketplace: GPS navigation, SIRIUS Satellite Radio, mobile video, music/picture storage and playback. N.I.C.E. also offers safety with its rear-view camera capability.

Cosmetically, the unit's gunmetal finish and sleek design may remind some of a high-end headrest monitor. But packed inside is a 20GB hard drive containing mapping software of the entire continental United States, Hawaii and parts of Canada. This hard drive can also be used to store JPEG photos and MP3, WMA and WAV music files. As for hardware, N.I.C.E. comes equipped with a built-in GPS antenna, speaker and FM transmitter. For connectivity, N.I.C.E. offers a 2.0 USB and 1.0 USB port, an A/V input, dedicated rear-view camera port, a line level audio output, and a port for an external (optional) GPS Antenna.

DID YOU KNOW?

The Consumer Electronics Association estimates that navigation devices will reach $935 million in 2005.

Quote Book

"Aftermarket systems of the future will be like N.I.C.E.; added on to OEM systems, not replacing any OEM components…"
—William Burton, Technical Editor,
Road & Track's *Road Gear* magazine

The Built-In Salesperson

One of the cool features Clarion has added to N.I.C.E. is the Built-In Salesperson — an MP3 file already stored into N.I.C.E. Our suggestion is to play the file while the navigation simulation is engaged, as it demonstrates how users can navigate while enjoying N.I.C.E.'s music player feature.

Here's how:

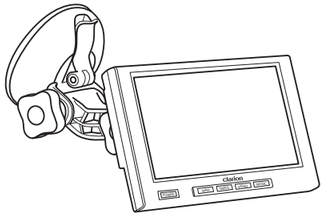
1. Press the navigation button (F3).
2. Press Setup.
3. Press Navigation Preferences.
4. Scroll down and press "Simulation" to turn the feature on (Simulation off is the default setting).
5. Press the exit button (F1) to close Setup.
6. Enter a destination.
7. Press the Music button and select the Built-In Salesperson file.

The Cure for OEM Integration

If you have a customer that's adamant about your installers not tearing into his or her vehicle's dash, or that customer says they are more than satisfied with their existing stereo system, N.I.C.E. will keep you in the sales game. Bottom line, N.I.C.E. has a compelling story to tell. Here's why:

1. The Suction Cup Mounting Solution

Making this all-in-one unit transportable is its easy-to-use suction-cup mount. All your customer needs to do is pick a location on the windshield. From there, the user sticks the suction cup to the desired location, presses the air-release button, and then pulls back the small lever to press the mount into place. This mount also offers two adjustment points, allowing users to easily dial in the correct angle.



2. Wireless Audio

Built into N.I.C.E. is an FM transmitter that wirelessly feeds audio to an existing stereo. To activate, press the onscreen mode button (F6 in navigation mode) and select the "Setup" icon in the menu screen. From the Setup menu, press the FM Frequency and Internal Speaker icon button. Next, press the FM Transmitter selection, and select the desired frequency.

3. Built-In Speaker

N.I.C.E.'s built-in speaker certainly is a convenient feature, especially when you're on the road. The built-in speaker can also be used to entertain the front-seat driver and passenger while backseat passengers enjoy a rear-seat video entertainment system. The speaker can also be used to hear voice prompts during navigation when the vehicle's existing stereo system is in use.

4. Built-In GPS Antenna

N.I.C.E. is truly ready to go right out of the box. Just flip up the GPS antenna to begin navigating. And if the reception is bad, N.I.C.E. will notify users directly on the screen with the onscreen GPS indicator (Green = Strong Signal, Light Green = Weak Signal, Gray = No Satellite Signal).

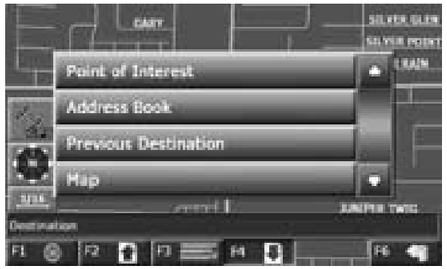
Going Custom … Got Accessories

There are a couple of key accessories you need to know about if you're looking at going custom. First, you'll need to add Clarion's NAVGPS, an external GPS antenna that'll take the place of the built-in GPS antenna (Note: the NAVGPS is not required for transportable applications). You may also want to consider the NAVAUDIO audio output cable if you're considering a direct feed to an existing source unit's AUX input.

Other N.I.C.E. accessories to consider is Clarion's NAVSIR SIRIUS tuner and antenna package. This required component allows N.I.C.E. to receive the satellite radio company's more than 120 channels of music, sports and entertainment.

N.I.C.E.'s Part Tour Guide Feature

Clarion's N.I.C.E. utilizes a global positioning system (GPS) to get you where you need to go, as it directly communicates with orbiting satellites above to calibrate its position. For quicker execution of route calculations, fast rerouting response, and rapid access to all features, N.I.C.E. comes equipped with a high-performance 32-Bit RISC (ARM9 Core) processor.



Mapping Software and Updates

Powered by NavMate Navigation Software, N.I.C.E.'s 20GB hard drive already comes equipped with maps of the entire United States, Hawaii, Alaska and parts of Canada. Clarion will also release DVD software updates, which your customers can purchase from the www.clarion.com Website.

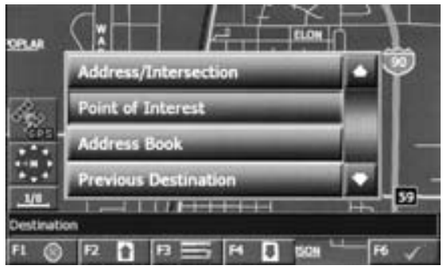
Getting Started

Users can begin navigating by pressing the "NAVI" button below the LCD screen, or by pressing the mode button (toolbox icon) to access the onscreen menu. Once the mapping screen appears, press the onscreen Navigation button (F3) to access the route selection screen.

From the route selection screen, users will have four options to choose from: Address/Intersection, Point of Interest, Address Book, Previous Destination, and MAP, which allows a user to select a destination by pointing to a location directly on the mapping screen.

Address/Intersection

When this option is selected, N.I.C.E. provides four ways to enter an address: state or province name, postal code, name of city or street. N.I.C.E. can even navigate the driver to the closest intersection if an exact address isn't known.



Point of Interest

Navigating in an unfamiliar city … just hit the Point of Interest selection to access N.I.C.E.'s database of 2 million key destinations. Categories include city centers, airports, ATMs, restaurants, tourist centers, wineries, casinos, and much more. Best of all, this feature also allows users to search by postal code and phone numbers. Just hit the onscreen keyboard (F5). When a category is selected, such as ATM, N.I.C.E. will prompt the user to choose how the locations are displayed, either by name or distance.

Point to Your Destination

Rather than enter an address, you can use your finger to touch a location on the map.

1. Select Map
2. Then touch the screen until the destination is located
3. Then touch F5 to confirm selection

Users can either store the destination into the address book, or hit the Start Route Guidance selection.

Address Book

N.I.C.E. comes equipped with the ability to store up to 4,000 addresses – a key feature for business people and on-the-go families. Just press the "Edit Address Book" selection after entering an address and N.I.C.E. will prompt the user to enter a name associated with the destination (i.e., Friend's House).

Previous Destination

The last 15 destination you navigated to can be instantly recalled by selecting the Previous Destination selection from the route selection screen. This is a nice feature when exploring in another town or state. Just recall your hotel's address and N.I.C.E. will get you back on track.

Onscreen Keyboard

This is a key feature whenever you are using N.I.C.E.'s navigation feature. In most instances, the onscreen keyboard will automatically appear when entering a destination. When it doesn't, users can press the onscreen keyboard button (F5), which has the ability to determine the desired point of interest, postal code, street or city name when only the first few letters are entered. This feature is also intuitive enough to eliminate letter possibilities based on the previously entered letter.

Traveling to Your Destination

Once the destination is selected, N.I.C.E. calculates the route based on the user preferences. The route is then highlighted with a magenta line. N.I.C.E. will also display a red pointer to signify your location, as well as a next-maneuver box in the left-hand corner of the screen.

Other visual aids include a current-location status bar, a distance-to-next-turn box, and an onscreen compass. N.I.C.E. also displays the street name of the next turn, as well as the route distance in the lower right corner of the screen.

Route Recovery

Don't worry if you miss a turn or intentionally stray off course to avoid traffic or roadwork, N.I.C.E. will get you back on track. With automatic route recalculation, N.I.C.E. remaps your journey as soon as you miss a turn. This great feature will also update the onscreen compass information, as well as the onscreen indicators.

Mapping Display

For starters, the top of the screen always points north. Or, for a more dynamic mapping display, the user can select the Heads Up display so that the top of the screen always points in the direction of the desired route.

N.I.C.E. also offers three mapping views: 2-D, 3-D and split screen. To select the desired view, press the Map button (F4). With the 3-D perspective, the user can see more of the road ahead, while 2-D provides users with a better view of the area surrounding the route. A user can take advantage of both perspectives by selecting the split screen view.

Users can also change the scale of the map by pressing either the Zoom In (F1) or Zoom Out (F2) buttons. The closest you can zoom in is 1/16th of a mile. The farthest you can zoom out is eight miles.

Wait, there's more. When the driver is within one mile of the next intersection, N.I.C.E. displays an enlarged view of the intersection on the left side of the screen.

Voice Guidance

You'll know voice guidance is on when you hear "Please proceed to the highlighted route" once you've entered the route (voice guidance is on a default setting). Once you begin driving, N.I.C.E. will provide verbal, step-by-step directions along the route. If, at any time, you want to hear the verbal instruction again, press the speaker button (F5).

DID YOU KNOW?

Users can also select from three language settings: English, Spanish, and French. Just go to the Setup menu by pressing the navigation button (F3).

Route Options

If you don't like driving on freeways, don't have enough money for toll roads, or you just want to travel the shortest distance possible, N.I.C.E. can accommodate your needs. Just press the navigation button (F3), select Setup, and press Navigation Preferences. The user can select from Shortest Time/Shortest Distance, Toll Road or Freeway avoidance. When Shortest Time is selected, the time is based on the road type rather than distance.

Using N.I.C.E.'s Personal Entertainment Features

N.I.C.E. provides four ways in which to entertain the driver and passengers: SIRIUS, Music Player, Photo and Video Playback. Just hit the Mode button, or the toolbox icon to access the onscreen menu. Users can also press the buttons located below the LCD screen.

One of the unique features N.I.C.E. offers is the ability to entertain users while navigating. Users can either listen to SIRIUS, or MP3 music files stored into N.I.C.E.'s music player. Just press either the SIRIUS or Music buttons located below the LCD screen to access the drop-down control bars.

SIRIUS

Aside from a subscription, your customer will need to purchase Clarion's NAVSIR SIRIUS tuner and antenna package (connect to the EXT. I/O port) to access SIRIUS Satellite Radio's more than 120 channels of commercial-free entertainment.

Users can access this feature two ways: press the SIRIUS button below the screen, or by pressing the mode button (toolbox icon) to access the onscreen menu. Basic controls include direct channel and category tuning, category search, channel, category and preset previewing (N.I.C.E. also offers 30 presets).

Users can also store up to 20 of their favorite artist and song titles by pressing the onscreen MEMO button. If N.I.C.E. finds one or more songs playing on channels other than the current channel, the unit beeps and displays "Memory Alert" for two seconds, followed by the list of song favorites that are currently playing. Users can then touch the desired song to switch channels.

Music Player

Half of the unit's 20GB hard drive is reserved solely for the purpose of entertainment. Utilizing N.I.C.E.'s 2.0 USB port, the user can plug the unit into a computer for drag-and-drop music uploading. Accepted formats include MP3, WMA and WAV music files. Users can also play music stored on a portable memory device by connecting the drive via N.I.C.E.'s 1.1 USB port.

Video Playback

N.I.C.E.'s high-resolution digital TFT LCD isn't just for navigation, but you knew that. Using the included audio/video cable, users can connect any external video source to N.I.C.E.'s "A/V IN" port. Once connected, press the VIDEO button below the display, or access the selection from the onscreen menu by pressing the mode button (toolbox icon). Once the control screen appears, the user can select the onscreen DVD/video game mode icon. Video can be viewed in a video window or in full-screen format.

Note: Video will automatically turn off when the vehicle is moving 5mph or more.

Rear View Camera

N.I.C.E. really can make the lives of van and SUV owners easier with its rear-view camera feature. If your customer already has a rear-mounted camera (if not, Clarion has one), N.I.C.E. is the perfect accessory with its included reverse trigger wire. This simple connection will allow N.I.C.E. to automatically engage the camera view once the vehicle is put into reverse — but you knew that. The rear-view camera control screen is the same used for video. To switch to rear-view camera, press the camera icon located in the top right control panel. Users can either view the image in a video window or as a full screen.

Photo Storage

With 10 gigs already reserved for entertainment, N.I.C.E. can also store JPEG photos. Loading files is easy. Just connect N.I.C.E. to a computer via its 2.0 USB port for drag-and-drop file loading. Users can also view photos stored into a portable storage device using the 1.0 USB port. Photos can be viewed individually or as a slideshow.

Multimedia

Getting "Podified" With Clarion's VRX755VD

The best part about the VRX755VD's built-in iPod interface is there's no learning curve for your customers. Why? The VRX755VD's iPod-control screen mirrors that of Apple's popular music player — complete with an iPod-like onscreen control pad and information display. Best of all, the VRX755VD is the only touch-screen solution on the market today. All that's required is a third-generation-or-newer iPod, the VRX755VD, and Clarion's CCA649 iPod data connecting cable, which also powers and charges the Apple music player during operation. Other cool features include full playlist access, a host playback functions, including Apple's popular "Shuffle" feature.

Cosmetic Sophistication: The VRX755VD

Faceplate: Fully detachable with flip-down disk loading.
Aesthetics: Piano-like finish with aluminum accents and techno-blue illumination
Display When Open: 7" High-resolution TFT display with touch-screen control.
Sub-display: Displays source information and notification of any engaged sound-enhancement. (See CD-ROM for detailed specs)

What Else Does Your Customer Get …

Try DVD, CD, CD-R/RW, and MP3 playback. This true single-DIN (meaning no external components!) mobile multimedia station is equipped with a high-resolution 7" monitor (excellent off-axis viewing), flip-down fully detachable faceplate, and integrated DSP tuner. And aside from being iPod ready, the VRX755VD is SIRIUS Ready (SIRCL2), TV tuner ready (TTX7501z), surround sound ready (DVH940), and DVD (VCZ625)/CD (DCZ625) changer ready — all of which is made possible using Clarion's CeNET component connection system.

DID YOU KNOW?

CeNET Technology: Incorporating all audio signals and power/trigger wires, this balanced line audio output connection provides direct communication between CeNET-capable source units and components.

Getting Tricky With 2 Zone Entertainment

Totally revamped for 2005, the VRX755VD's 2 Zone Entertainment features allows for more entertainment combinations when entertaining front- and rear-seat passengers (see table). What hasn't changed is the loss of the 2 Zone feature when Clarion's DVH940 processor is connected — no biggie.

2 Zone Entertainment Options

Options	Front Zone (Zone 1)	Rear Zone (Zone 2)
Type 1	DVD (Including CD/MP3)	A/V Input
Type 2	A/V Input	DVD Only
Type 3	Radio, CeNET-Connected Device (SIRIUS, CD Changer, etc.)	DVD or A/V Input
Type 4	iPod	DVD Only

2 Zone Entertainment is possible only in a four-speaker setup and when the subwoofer output is not in use.
2 Zone Entertainment feature is disabled when the DVH940 is connected to the VRX755VD.

Now here's where it gets tricky. Unlike last year's version, 2 Zone utilizes the non-fade RCA output (Purple RCAs used to connect a subwoofer), transforms it into a fixed-level output and sends the audio feed to a wireless headphone transmitter. This isn't a problem as long as there's no subwoofer tied into the system. If so, your customers may blow more than a speaker.

Here's the fix: Included on the CD-ROM packaged with this guide are two system diagrams that will help you overcome this obstacle. Both utilize the subwoofer level controls offered by Clarion's EQS744 7-band graphic equalizer and MCD360 3-way electronic crossover. I think you know where we're going with this, right?

Audio 2ZONE

Capturing Clarion's Signature Sound: The VRX755VD

The VRX755VD offers a host of features geared toward reproducing Clarion's signature sound, such as 6-Channel RCA line level outputs, and 212 Watts of max power output. Here's a list of other key features you need to tell your customer:

24-Bit Digital-to-Analog Converter

For you techno junkies, 24-Bit conversion translates into a higher signal-to-noise ratio for better sound and imaging. This is the result of increased "oversampling" of the original signal, as linearity errors and notch distortion are greatly reduced.

24bit D/A CONVERTER

Magna Bass EX:

This feature was designed for serious bass aficionados, as it boosts the ultra-low frequency with a center frequency of 50Hz. Think of it as a "loudness" button for your bass, as this feature also incorporates an automatic boost level control for well-balanced bass reproduction — even at high volumes.

M-BASS EX

3-Band Parametric EQ

Provides users with three bands of adjustments. Each band — LOW, MID, HIGH — has selectable frequencies, adjustable gain and selectable Q (width of frequency adjustment).

P.EQ Parametric EQ

Got Video…Got Options: Rear-Seat Entertainment

Clarion offers three categories of rear-seat video entertainment options: including two overhead categories and two headrest-monitor solutions. All three categories offer Clarion's high-resolution LCD screens, which utilize the latest in active matrix LCD technology. This includes the use of Thin Film Transistors (TFT), which attach to each RGB (red/green/blue) pixel. This prevents the "white wash" effect common with passive matrix screens.

All three rear-seat entertainment solutions also come with Clarion's external Game Port, which can be installed anywhere inside the vehicle. This Game Port allows your customers to easily connect any type of video source, including a camcorder, game console, and DVD player.

DID YOU KNOW?

Striped Pixel Configuration: This method of aligning pixels into columns is how Clarion's video screens achieve a higher pixel count. The result is high-definition viewing and superior color accuracy.

Overheads With DVDs

Clarion's all-in-one rear-seat entertainment systems come in a 7-inch (OHMD74) and an all-new 10.2-inch (OHMD102) flip-down version. Both come equipped with a built-in DVD player that can also play CDs, CD-R/RWs, DVD+/-R/RWs, and MP3 music files.

Spec Check: OHMD74/102

- TFT Active Matrix With 16:9/4:3 Viewing Formats
- 1 A/V Input
- 1 Video Output
- Game Port
- IR Audio Output for Wireless Headphones
- 2 Wireless Headphones
- FM Modulator Control Cable
- Remote Control
- Built-In Dome Lights

ON THE CD: Check the multimedia section for detailed specs

Offer your customers two monitors in one with Clarion's OHM102 (10.2-inch) and OHM153 (15.3-inch) overhead monitors. Equipped with "Picture In Picture" technology, your customer's rear-seat passengers can watch two video sources simultaneously. To demonstrate, just press the PIP button on the control panel to toggle through the optional views.

Dual Viewing and Listening

Augmenting this dual viewing feature is Clarion's dual IR audio output technology, which allows users to switch between two entertainment sources directly from the two included wireless headphones.

Cosmetically, both units sport ultra-compact shrouds, and universal mounting brackets. Differentiating the two is the OHM102's swivel mechanism, which allows users to direct the screen to the optimal viewing angle.

Spec Check: OHM102/153

- TFT Active Matrix Display With 16:9/4:3 Viewing Formats
- Accepts Up To 4 A/V Inputs
- 1 Video Output
- Game Port
- Dual IR Audio Output for Wireless headphones
- 2 Included Wireless Headphones (WH204H)
- Remote Control
- Built-In Dome Lights

ON THE CD: Check for additional specs and suggested system layouts

DID YOU KNOW?

You can add up to 4 AV inputs with the addition of two CA001 A/V Input Cables.

Headrest Monitors

Clarion's VMA7194 (7-inch) and VMA5894 (5.8-inch) offer high-resolution TFT active matrix displays with two viewing formats — 16:9/4:3. Other features include 2 A/V inputs and a built-in IR audio system (wireless headphones sold separately). Dual Audio out technology allows for separate zones without any switches.

ON THE CD: detailed specs and suggested system layouts

Sensory Overload: Add-On Goodies

If you're not introducing your customer to more than a rear-seat entertainment system with FM-modulated sound — sorry, but you're missing the boat. What about 5.1-channel surround for the car? The message here is don't sell yourself short when it comes to Clarion's full-line of mobile multimedia products

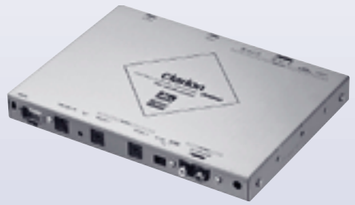
DVH940 Surround Sound Processor

Car audio is about an experience of great sound. So don't let your customer's experience be an FM-modulated rear-seat entertainment system. If anything, just plant the seed as well as the great price of Clarion's DVH940 surround sound processor.

Key features include Dolby Digital and dts processing, selectable crossovers (front, center and rear, 50Hz/80Hz/120Hz), 24-Bit D/A Converters, 4-Volt/6-Channel RCA line level outputs, and digital sound field settings. Additionally, the DVH940 can optimize a system for different source material by allowing users to adjust the center and subwoofer volumes independently.

Also included is a built-in 1/3-octave Parametric EQ, allowing for front-, rear- and center-channel adjustments (frequency, gain, and Q) using a built-in "Pink Noise" generator. The DVH940 also offers 7 DSP surround settings — Club, Theater, and more, as well as a digital time alignment option. This feature allows you to set speaker delays to compensate for sonic discrepancies caused by a vehicle's interior design.

The processor also comes equipped with Dolby Pro Logic II decoding, which produces quasi-5.1-channel surround from any two-channel stereo source (including CD, MP3 and FM tuner). It does this by creating a phantom center channel using the two front speakers, as well as a surround and subwoofer channel.



ON THE CD: detailed specs and suggested system layouts

The Ultimate Center-Channel Solution

Several of Clarion's competitors have tried it, but none has perfected it quite like Clarion's SRK5 center-channel speaker system. Roughly the size of a half-DIN equalizer, the unit's included 50-watt amplifier makes it ready to install right out of the box. This center-channel solution utilizes five 3/4-inch full-range speakers in a sealed enclosure. For midbass support, the unit comes with two additional rear-mounted 1-inch speakers, which are ported to the front.

ON THE CD: detailed specs

DID YOU KNOW?

OnStar Integration: The SRK5 can also be used as a dedicated speaker for OnStar when integrating an aftermarket source unit into a vehicle equipped with this GM-offered service.

VCZ625 6-Disc "MULTIMEDIA" Changer

A key message you need to get across when selling this CeNET-controlled component is that it's a 6-disc DVD/CD/MP3 changer. That's a lot of entertainment possibilities to offer your customer. Best of all, the unit is optimized for great sound with a 24-Bit digital-to-analog converter.

ON THE CD: detailed specs

All-New In-Dash DVD Player

For those looking for an in-dash solution to DVD playback, Clarion's all-new VS755 is the perfect answer. Offering DVD, CD and MP3 playback, the units offers 2 A/V inputs, including one on the front panel. Other features include an audio gain controller, 24-Bit D/A conversion, and an adjustable aspect ration (16:9/4:3).

ON THE CD: detailed specs

TV Tuners

Completing Clarion's multimedia lineup is the CeNET-controlled TTX7501z, and standalone- or slave-operated TTX001 TV tuners. For reception, Clarion offers two different glass-mount antennas.

ON THE CD: detailed specs and suggested system layout

Video Amplifier

If you are building a multiple monitor rear-seat entertainment system, then the VA700 is a must-have component. Able to support up to seven monitors, the video amplifier prevents that dark-picture look caused by signal loss.

Multi-Zone Switcher

Clarion MSS430 "Source Commander" is a combination audio/video switcher outfitted with a built-in video distribution amplifier. Offering four audio inputs with individual gain controls, the MSS430 can send audio and video to any three monitors and headphones, independently. This means three video programs can be playing at the same time on a three-screen video system. For sound, the Source Commander's line level output can feed any of Clarion's WH104/WH204/WH105 wireless headphones, as well as on AUX input on any source unit or equalizer.

DID YOU KNOW?

The Source Commander also comes with a reverse-trigger-equipped rear-view camera input, making this a must-have component when connecting Clarion's CK525E rear-view camera kit.

ON THE CD: detailed specs

Rear-View Camera System

Clarion's CK525E is a must-have accessory for owners of SUVs and motor homes. The kit includes Clarion's CC1030E — a camera that's 1.9 inches in width, 1.4 inches in height, and has a depth 1.8 inches — CAA188 power supply, and a 23-foot MF23RM camera cable. The camera is perfect for larger vehicles, such as SUVs, trucks and motor homes.

ON THE CD: detailed specs and suggested system layout

Accessories

What you need to have

Multimedia: Accessories/Parts Information

Headphones

WH104
2 Wireless Headphones With IR transmitter

WH104H
Replacement Wireless Headphone System for OHMD74, OHMD102 and WH104

WH204
2 Wireless Headphones With IR transmitter (Dual Channel)

WH204H
Replacement Wireless Headphone System for OHM102, OHM153 and WH204

WH105
2 RF Wireless Headphone System

WH105H
Replacement Wireless Headphone System for WH105

Video Amp and Modulators

VA700
Video Distribution Amplifier (1 Input, 7 Outputs)

FM700W
Wireless FM Modulator With 2-Channel RCA Audio Output

FM200
FM Modulator With 2-Channel RCA Audio Input

Mounts

PQE023
Mounting Arm for Video Monitors

ZMT009
Gooseneck Monitor Mount

ZCP104
4-Way Film-Type Amplified Diversity Antenna for TV Tuner

ZCB301
Inside Glass-Mount Dipole TV Antenna

Cables

CCA649
iPod Interfacing Cable for VRX755VD

CCA389
8-Pin DIN-to-RCA Audio/Video Adaptor

CA001
OHM102/OHM153 A/V Input Cables

CCA519
CeNET Y-Adaptor for Multi-Changer Control

Remotes

RCB161
Replacement Remote for VRX755VD, VRX935VD, VRX745VD, VRX925VD, and VCZ625

RCBD74
Replacement Remote for OHMD74

RCBD102
Replacement Remote for OHMD102

RCB755
Replacement Remote for VS755

RCB735
Replacement Remote for VS735

RCL123
Replacement Remote for OHM153, and OHM102

RCB910
Replacement Remote for VDH910

RCB715
Replacement Remote for VS715

RCB137
Replacement Remote for DVS9755Z

RCB062
FM Modulator Kit for TTX7101

RCB155
Replacement Remote for TTX7601

IR200
Plug-In Eye (Included With TTX001)

IRY
"Y" Adaptor for IR200

RC300
IR Remote for VMA1131, VMA1041, and TTX001

RCB111
Replacement Remote for MAX2256 and VRX8271

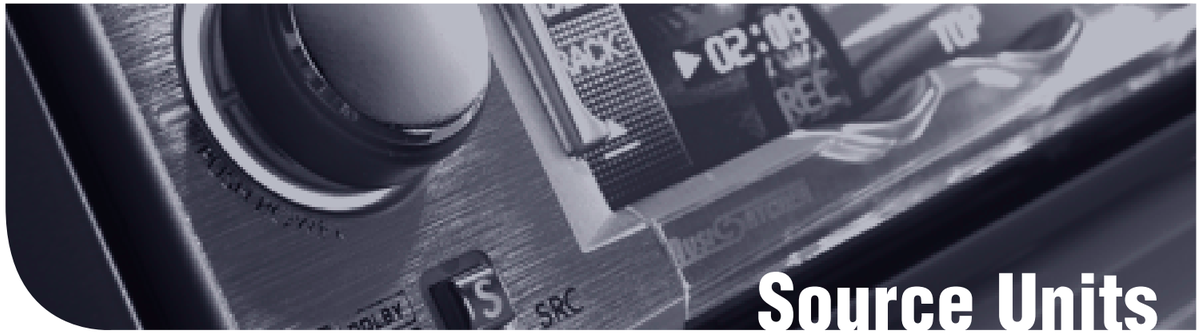
Other

DCA-005
16' Fiber Optic Cable Linking 2004 Source Units to DVH940 (new to new connectors)

DCA-006
16' Fiber Optic Cable Linking 2001 Source Units to DVH940 (old to new connectors)

DCA-007
16' Fiber Optic Cable Linking 2004 Source Unit to DPH910/DVS9755Z Box (new to old connectors)

DCA-008
5' Fiber Optic Cable Linking 2004 Source Units to DVH940 (new to new connectors)



Source Units

New Look, Better Sound

Our look is edgier, our sound more powerful. Oh, and now we're iPod ready. But there's so much more to see and hear about Clarion's 2005 source-unit line. Here's a couple of highlights for you to chew on:

- Clarion adds CeNET-compatible iPod interface.
- Clarion's touch-screen Optimedia technology goes color and expands to two new models.
- Music Catcher CD recording technology expands to three new models.
- MOS-FET amplification comes to five new ProAudio models.
- Six new units are MP3/WMA compatible.
- Four units come equipped with Clarion's ADF compressed audio enhancer.
- Three models come with 45-second shockproof memory.
- Clarion introduces new AC Processor IV.
- Four models now harness 24-bit D/A converters.
- Dolby Pro Logic II processing now equips two source-unit models.
- Two models are outfitted with 4.2-inch full-color TFT displays.
- Two models are outfitted with stainless steel faceplates.
- Two units harness Clarion's 728-variable-color technology.
- Three models come equipped with Clarion's all-new Smart Control.

Get the Skinny on iPod Control

Compatible with more than a quarter-million ProAudio source units on the market today (dating back to 2001), Clarion's EA1251B iPod interface is your customer's way of "Podifying" their in-car experience. The interface, which powers and charges the iPod during operation, is compatible with source units with model numbers containing the letter "Z" — which signifies that the unit offers CeNET control.

Mirroring the control of a CD changer, the interface requires the user to create six playlists. The title of each playlist must contain the word "clarion (no caps)" followed by the playlist number (ie., clarion1 or clarion2). The first playlist automatically collects all songs loaded into the iTunes program. The user can personalize the remaining five.

EA1251B Connectivity

- There are some restrictions when interfacing the iPod with VRX models, as these multimedia source units can only control up to 100 songs within a playlist.
- Source units with "DB" in the model number cannot be connected to the interface.
- Interface is not equipped with a pass-through CeNET connection. Installers must use Clarion's CCA519 to connect additional CeNET-controlled components.

ON THE CD: detailed specs and suggested system layout

Leading-Edge Source-Unit Features

In 2004, Clarion revolutionized source-unit technology with the introduction of its Optimedia, Music Catcher and ADF features. In 2005 Clarion expands these revolutionary technologies. Here's what to look for:

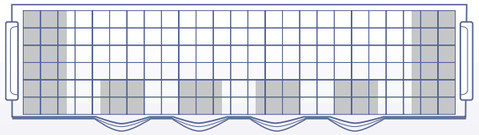
Optimedia Remastered

Clarion's Optimedia is a touch-screen-based technology that intuitively links the movement of the user's fingertip to the screen. For 2005, Clarion has revamped Optimedia as it now offers far superior control and feature-menu access than the previous generation — introduced in 2004 with the DXZ945MP. Now, users have six main onscreen controls — four located to the bottom of the screen and one located at each side.

The side controls offer an up-and-down swipe control, which allows users to switch between features, as well as adjust the effect of the feature. While listening to music, the right control bar allows users to switch between radio stations, Music Catcher songs (only on the DXZ955MC), CD and MP3 tracks. The left control bar allows users to toggle between Music Catcher and MP3 folders, as well as presets when listening to the radio tuner.

While listening to the radio tuner, the bottom four control buttons allow users to access the preset menu, change bands, engage the preset scan and auto station storage, as well as change the display type. When playing a CD, buttons 2, 3 and 4 (L-R) allow users to return to the beginning of the CD, play, and change displays, respectively (for the DXZ955MC, button 1 is the record button for Music Catcher).

When accessing the Sound and Adjustment (ADJ) menus (access buttons located on the actual faceplate), buttons 2 and 3 allow users to scroll through the feature menu. Button 4 allows users to return to the previous screen. Once the feature is located, the user can make their selection by pressing the feature name.



Music Catcher

Expanded to three new source units in 2005 — the DXZ955MC, DXZ755MC and DB455MC — this CD recording technology allows your customers to store their favorite CD or specific tracks directly into the source unit.

The 9 and 7 series models can store up to 6 CDs, or 80 songs. The 4 series, the first non-ProAudio model to harness this technology, can store up to 3 CDs worth of music. This technology also offers two recording modes: High Quality and Long Play. High Quality is a high-quality recording mode that does cut down on the number of songs a user can store (Songs stored as WMA music files).

Benefits to this technology also exist during playback. Because Music Catcher is based on static memory technology, users will enjoy hours of skip-free music playback. Why? There are no moving parts. This makes Music Catcher great for extreme driving.

ADF

Clarion's ADF, or Anti-Distortion Filter, was created solely for the purpose of enhancing the listening experience of MP3 and WMA music files. During compression, the fidelity of one's music is drastically reduced, allowing for more music file storage. That's where ADF comes in. Smoothing out the audio signal so high and low frequencies remain audible, ADF allows your MP3 and WMA music files to sound like the original recording. Best of all, there's no added frequency boost, which can result in dull, muffled sound.

Hitting the Highs and Lows

Achieving optimal sound reproduction is easy with Clarion's great sound-enhancement features. Check out these short descriptions to learn more:

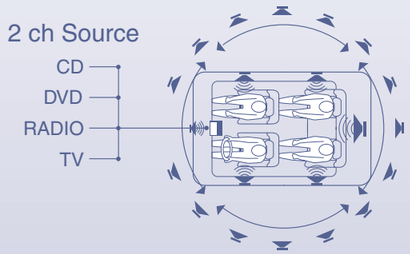
AC Processing: Clarion's Advanced Digital Sound Processing Technology

Clarion's AC Processor IV, a feature offered by the all-new DXZ955MC, takes the AC Processor III (featured DXZ945MP) a step further by closing the gaps between left-to-right sound transitions. The result is that being-there sound.

Whereas typical stereo couldn't audibly recreate the effect of sound moving left to right (i.e., a racecar traveling around a track when watching a DVD movie), 5.1-channel allowed users to achieve this sound field by offering a center channel. What Clarion's AC Processor III did was create a smoother transition when the sound effect traveled left to center and then center to right. Clarion takes this even further with the AC Processor IV, which eliminates transition gaps by creating a phantom left- and right-center speaker effect.

These processors allow users to take this sound processing a step further with the following features:

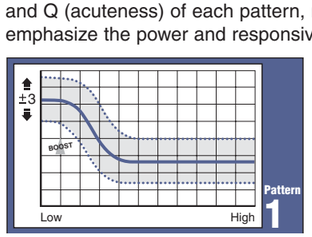
- Dolby Pro Logic II: Developed by Dolby Laboratories, this matrix sound decoding technology takes any 2-channel sound, such as a CD or radio broadcast, decodes it, and outputs it as 5.1-channel sound. This feature also offers a center-width control and a matrix mode that simulates the center-channel speaker using the F/L speakers to create a quasi 5.1 surround effect.



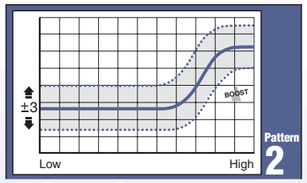
- Virtual Space Enhancer: A vehicle's interior is plagued by reflective sound in the neighborhood of 230 Hz, which disrupts low-frequency reproduction. That's why Clarion's Virtual Space Enhancer (VSE) was created, as it digitally compensates for irregular reflection, polarization, and other acoustic problems associated with the vehicle's interior design.
- Time Alignment Control: For pinpoint accuracy, this feature allows users to adjust a system's speakers to deliver the same acoustical effects. This is based on five basic positioning points: FRONT-L, FRONT-R, REAR-R, REAR-L and FULL SEAT. Aside from effecting a system's acoustical patterns, digital time alignment allows the user to optimize their system to account for the number of passengers inside the vehicle. The adjustment range is 0-500 cm in 2.3 cm steps.
- 3-Band Parametric EQ: When BASS and TREBLE tone controls just don't cut it, the 3-band parametric EQ allows the user to adjust the gain, frequency and Q (width of the adjusted frequency) of each band. This feature also allows users to select from three operating modes — SEDAN, WAGON and MINI VAN — and offers additional system correction by offering two preset patterns for each operating mode.

Z-Enhancer Plus

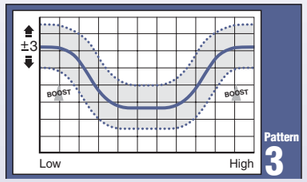
This feature outfits the 5 and 6 series source units, providing users with three performance patterns to choose from. This allows users to adjust the sound system to their specific musical tastes. Additionally, users can adjust the gain and Q (acuteness) of each pattern, making it possible to emphasize the power and responsiveness of each band.



Low Frequency Boost.



High Frequency Boost.



Low and High Frequency Boost.

24-Bit Technology

Clarion's new DXZ955MC, DXZ855MP and DXZ755MC join the DRZ9255 and DXZ945MP as the only units in Clarion's 2005 line to harness 24-Bit D/A converters. This technology translates into more music detail and audiophile sound as the digital code of the "one" and "zero" bits is read more often than a standard 1-bit decoding rate of 44,100 bits per second. This conversion rate is also better at reducing linearity errors and notch distortion, resulting in superior sound and less system noise.

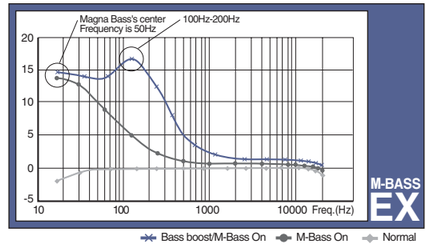
Bass Enhancers

With music tastes being what they are today, Clarion offers users several ways to really dial in those low frequencies. Here's what you need to talk about when introducing a Clarion source unit to your customers:

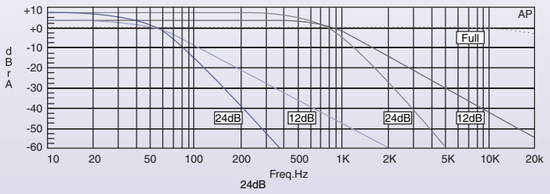
Magna Bass EX

This feature was designed for serious bass aficionados, as it boosts the ultra-low frequency with a center frequency of 50Hz. Think of it as a "loudness" button for your bass, as this feature also incorporates an automatic boost level control for well-balanced bass reproduction, even at high volumes.

Subwoofer Level Control and Built-In Low-Pass Crossover



Owners of the 9 through 6 series ProAudio Source Units (excluding the DRZ9255) can access these two features by pressing the "AM" button. This feature allows for instant subwoofer adjustment and more control over the sound system. Included with the Subwoofer Level Control is a built-in low-pass crossover with selectable frequencies: 50Hz, 80Hz, and 120Hz. When the crossover is selected, the rear channel RCA line level outputs become dedicated subwoofer outputs, directly controlled by the Subwoofer Level Control. The front and rear powered speaker output will not be affected by the low-pass crossovers, and can be used to power front and rear speakers while the subwoofer/rear channel line level output drive a subwoofer amplifier and subwoofer.

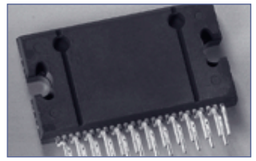


The Power of Sound

Here are a couple of must-mentions when talking about a Clarion source unit. Most importantly is Clarion's new MOS-FET amplification, a new feature in 2005. Here's a list of these features, as well as descriptions:

MOSFET Amplification

One of the biggest changes Clarion made to its 2005 ProAudio source units is MOS-FET amplification, otherwise known as Metal Oxide Semiconductor Field Effect Transistor amplification. Outfitting the 9 through 5 series, these CD players deliver (excluding DRZ9255) unyielding power output and linearity. Smaller and more efficient than conventional power supplies, this type of amplification circuit delivers power with less distortion and zero On/Off switching noise.



4-Volt Preamplifier Output

A source unit with a high output preamplifier voltage not only reduces signal clipping, but also the effects of a vehicle's electrical system noise on an audio signal traveling from the source unit to the amplifier. Such a high voltage rating also means the input gain setting on an amplifier can be lower, which reduces system noise levels. So, with 4-volt, low-impedance (less than 300 ohms) outputs, Clarion's source units and processors minimize the possibility of a clipped and distorted output signal. The result is music reproduction with extended dynamic range.

Zero-Bit Detector Mute Circuit

Clarion CD players feature a zero-bit detector circuit, which mutes both the line-level and speaker-level outputs when it does not see a digital signal (zero bits) for more than 750 milliseconds. This eliminates tracking noise or background noise that is typically associated with the decoding of the digital signal to its final analog form. Audio is restored after a period of one and zero bits is longer than 57 µs.

Clarion's All-New Cosmetic Look

In today's mobile electronics marketplace, cosmetics have risen to the forefront in the minds of consumers … the reason for Clarion's all-new look in 2005. What you'll see are all-new faceplate designs, new full-color displays, and a new Smart Control key for easy menu and source navigation.

DXZ955MC

DXZ855MP

Design and Innovation: The 9 and 8 Series

Clarion's 9 and 8 series models offer the latest in source-unit cosmetics. Starting with the stainless steel faceplates, owners of these two high-end CD/MP3/WMA receivers will enjoy a sophisticated, yet progressive look. But that's not all.

Both unit's also come with 4.2-inch TFT displays, which boast 400 x 96 dots and 256 vibrant colors. You'll experience the difference once the full-motion graphic screen savers go into full effect. The size of the screen also aids in the precision control offered by Clarion's Optimedia touch-screen technology as users will easily navigate through menu screens, as well as flip through CD and MP3 tracks.

Smart Control: The 7, 6 and 5 Series

New to Clarion is Smart Control, a lever located on the rotary volume knob of the 7, 6 and 5 Series. It allows for simple navigation through sound and settings menus. This innovation also makes CD-track, MP3-file, and Music Catcher-folder changes easier than ever before. The Smart Control is also used when controlling CeNET-connected components.

All-New Cosmetics: The 7 and 6 Series

The 7 and 6 series source units boast an all-new display type — a full-dot matrix, positive LCD that incorporates 6,000 more dots than previous 7 and 6 generations. This allows the unit's remastered graphics chip to offer superior motion graphics that flow seamlessly across the screens.

As for the faceplates, the 7 and 6 models sport a two-tone design with a glossy-black center and brushed-aluminum accents.

Two-Tone Look Continues: The 6, 5, 4, 3, 2 and 1 Series

These six source units offer a similar faceplate design as the 6 and 7 series, only the brushed aluminum is substituted with ABS plastic.

728 Variable Colors

The 7 and 6 series models also continue Clarion's multi-color display technology. Users can choose from nine different presets, or customize their display and function key illumination using the user setting function.

Retractable Rotary Volume Control

A featured offered by select source-unit models, Clarion's retractable rotary volume control is much more ergonomic and intuitive than buttons.

Message Information

Select ProAudio models allow users to personalize their display with a customizable messages of up to 30 characters. This feature will also scroll the message across the source unit's display screen.

CD Safeguards and Anti-Skipping Measures

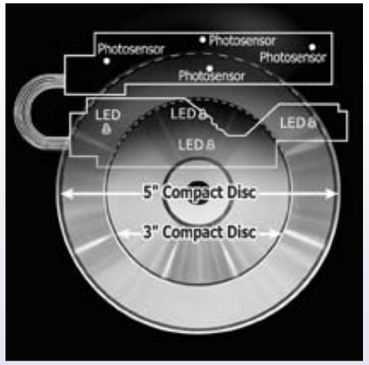
Clarion adds 45-second shockproof memory to its CD source unit arsenal. This is one of several measures Clarion has taken to ensure skip-free and scratch-free CD playback. Read on to find out more.

Shockproof Memory

This feature was created for extreme drivers as it provides Clarion's DXZ955MC and DXZ755MC with a 45- and 20-second buffer, respectively. This results in continuous music enjoyment — no matter what the road condition is. This is also a helpful feature when recording CD tracks into Clarion's Music Catcher, preventing any disruptions during recording.

Clarion's Low-Vibration Suspension System

Clarion's CD source units (includes DVD and CD changers) feature an advanced suspension system to prevent skipping and mistracking. Clarion incorporates a system of springs and dampeners to minimize the chance of skipping, whether the unit's on the road, off the road, or on the water. Along with the suspension system, a three-beam laser pick-up assembly is employed. The center pick-up detects the digital information that is sent to the D/A converter. The inner and outer pick-ups guide the laser assembly to precisely track the digital information on the CD. With this advanced suspension system, D/A converters and the zero bit detection circuit, it is clear why Clarion CD players outperform the competition with flawless sound reproduction.



Clarion's CD Operational Safeguards

Clarion's CD operational safeguards allow the CD mechanism to detect disc size if a disc is already in the drive, foreign objects, and when to auto reload. A tapered loading roller precisely centers the CD onto the drive spindle. Since the roller mechanism is tapered, only the edges of the CD are touched, preserving the digital information by eliminating the chance of CD scratching. Clarion also adds a sensor that closes the loading gate when a CD is already loaded into the mech. These operational safeguards allow safer CD handling, prevents jams, and helps reduce service problems by detecting foreign objects in the drive mechanism.

Source Unit Breakdown

Starting with DB155, this section was designed to show step-up features, as well as provide key selling points when speaking to a customer.

ON THE CD: detailed specs

DB155 CD Receiver

This is the perfect solution for customers looking for an inexpensive replacement for their factory stereo. This unit, however, is anything but basic as it offers high power output, Clarion's sound-enhancing Magna Bass EX and Z-Enhancer. Best of all, the faceplate is fully detachable.

The Basics:

- CD/CD-R/RW Playback
- High-Contrast Negative Display (13 x 8 Digits)
- Screen Saver
- Rotary Knob
- 51 Watts x 4 Channels
- 2-Channel RCA Output
- Magna Bass EX
- Z-Enhancer
- Detachable Faceplate

DB255 CD Receiver

The biggest difference between this model and the DB155 is its flip-down faceplate and included remote control. Your price-conscience customer will be sold once they see how the faceplate flips down during CD loading.

Step-Up Features:

- Flip-Down Faceplate for CD Loading
- Remote Control

DB355MP CD/MP3 Receiver

The DB355MP is where MP3 playback begins with Clarion's 2005 line. This means your customers can record up to 10 hours of music on a single CD-R or CD-RW.

Step-Up:

- MP3 Playback

DB455MC CD/MP3/WMA Receiver With Music Catcher

The DB455MC is the first of three source units in 2005 to offer Clarion's Music Catcher one-touch CD recording technology, as it allows users to store up to three CDs worth of their favorite tunes. This model is also where power output is increased, and where WMA playback begins.

Step-Up Features:

- WMA Playback
- Music Catcher One-Touch CD Recording
- Display Type: 13 x 10 Digits
- 52 Watts x 4 Channels

DXZ555MP CD/MP3/WMA Receiver

The model represents the entry point into Clarion's 2005 ProAudio line. Users get MOS-FET amplification, CeNET control, iPod control (requires EA12511B), two sets of preamp outputs, an auxiliary input and much more. This is also where Clarion introduces its new Smart Control key.

Step-Up Features:

- Negative High-Contrast Display With Screen Saver
- MOS-FET Amplifier (53 Watts x 4 Channels)
- Smart Control and Retractable Rotary Volume Control
- Flip-Down Faceplate
- CeNET Control
- iPod™ Ready
- SIRIUS® Ready
- 4-Channel RCA Output
- 1 AUX Input
- 2-Band Parametric EQ

DXZ655MP CD/MP3/WMA Receiver

Cosmetics hit a whole new level with the 6 series, as it touts 728 variable colors, and a high-contrast positive display. The unit also offers three sets of preamp outputs, a low-pass filter and a motorized sloping aluminum faceplate.

Step-Up Features:

- High-Contrast Positive Display With New Graphics Chip
- 728 Variable Colors
- 6-Channel RCA Output
- Built-In Low-Pass Filter
- Motorized Sloping Aluminum Faceplate (Detachable)

DXZ755MC CD/MP3/WMA Receiver With Music Catcher

This feature-laden source unit comes equipped with Clarion's Music Catcher one-touch CD recording technology. This unit also adds a 45-second music playback buffer for skip-free music enjoyment, as well as Clarion's compressed-audio enhancing ADF.

Features:

- Music Catcher One-Touch CD Recording
- 45-Second Shock-Proof Memory
- ADF

DXZ855MP CD/MP3/WMA Receiver With Optimedia

Clarion takes touch-screen control to the next level with the all-new DXZ855MP. Other features include a 4.2-inch full-color TFT display, a stainless steel faceplate, and 24-Bit D/A Conversion.

Step-Up Features:

- 4.2-Inch Full-Color TFT Display
- Optimedia Touch-Screen Technology
- 24-Bit D/A Conversion
- 4-Volt/6-Channel Outputs
- Motorized Stainless Steel Faceplate (Detachable)

DXZ955MC CD/MP3/WMA Receiver With Music Catcher and Optimedia

Harnessing every source-unit feature Clarion has to offer, the feature-laden DXZ955MC also showcases Clarion's remastered Optimedia technology, Music Catcher and the all-new AC-Processor IV. Cosmetically, the unit offers a 4.2-inch full-color TFT display and a stainless steel faceplate.

Step-Up Features:

- Music Catcher One-Touch CD Recording
- 45-Second Shock-Proof Memory
- AC Processor IV: Dolby Pro Logic II, Time Alignment, Virtual Space Enhancer
- 3-Band Parametric EQ

2004 Continuing Models

DXZ945MP CD/MP3/WMA Receiver With Optimedia

Introduced in 2004, this was the first source unit to offer Clarion's Optimedia technology. This was also the first unit to feature Clarion's AC Processing chip, offering Dolby Pro Logic II, Time Alignment and a Virtual Space Enhancer. This is also the only source unit in 2005 to offer Dual Zone listening.

Features:

- First-Generation Optimedia Touch-Screen Technology
- 16-Gradation Full-Dot LCD
- AC-Processor III: Dolby Pro Logic II, Time Alignment, Virtual Space Enhancer
- Dual Zone
- 53 Watts x 4 Channel (No MOS-FET Amplification)

DRZ9255 Audiophile-Grade CD Receiver

Clarion's DRZ9255 is in a class all of its own. It offers built-in 4-Way crossovers, Burr-Brown DACs, a 5-Band Parametric EQ, Digital Time Alignment, 8-Channel RCA Output, 96kHz sampling…we could go on. Bottom line, this source unit is for those serious about audio.

Step-Up Features:

- Audiophile-Grade Burr-Brown DACs
- 96kHz Sampling
- 0.5dB-Step Electronic Volume Circuit
- External DC/DC Converter
- Built-In 4-Way Crossovers
- 5-Band Parametric EQ
- 2 AUX Inputs
- 1 Optical In/Out Terminal
- 4-Volt/8-Channel RCA Output (Oxygen-Free Cables)
- Digital Time Alignment
- Copper-Plated Chassis
- CeNET Control
- Vacuum Florescent Display
- Zinc Die-Cast Faceplate

ADB340MP Double-DIN CD/MP3/Cassette Receiver

This double-DIN receiver is the answer to those customers still holding onto the days of the cassette, but are slowly moving to CD. Offering great power and features, this is a great solution for customers looking for a double-DIN factory replacement.

Features:

- Flip-Down Faceplate
- MP3 Playback
- Full Logic Cassette With Auto Reverse
- 3-Band Parametric EQ
- LCD With Spectrum Analyzer
- AUX Input
- 2-Channel RCA Output
- 50 Watts x 4 Channels

XA311 Cassette Player

This is Clarion's flagship cassette player … really. It offers adequate power and great features.

Features:

- Auto Reverse
- C-BUS CD Changer Controller
- Magi-Tune Tuner
- Green LCD
- 40 Watts x 4 Channels
- Rotary Volume Control

CD Changers

DCZ625 CeNET Controlled 6-Disc Changer

- CD-R/CD-RW Compatible
- 8x Oversampling Digital Filter
- Horizontal or Vertical Mounting Capability
- Fiber Optical Digital Output
- CD Text and CD Titling
- CeNET

DC625 C-BUS Controlled 6-Disc CD Changer

- CD-R/CD-RW Compatible
- 8x Oversampling Digital Filter
- Horizontal or Vertical Mounting Capability
- C-BUS

FMC250 C-BUS CD Changer Control With FM Modulator

- Play/Pause Selector
- Repeat Play
- Random/Scan Play
- Track Search
- Disc Selector
- Software Controlled Setup
- Flush-Mount Bracket Included

Accessories

What you need to have

CD Changer Magazines

CCA397
6-Disc Magazines for DCZ625, DC625 and VCZ625

CAA355
6-Disc Magazine for CDC655Tz, CDC634, CDC635, CDC65JZ

CAA134
3-pack/One Each Red, White and Blue 6-Pack Magazine for CDC1255Z and CDC1235

CAA122
6-Pack Magazine for CD1255Z and CDC1235

CeNET Cables

CCA519
CeNET Y-Adaptor for Multi-Changer Control

CCA520
8' CeNET CD Changer (Extension) Cable, Male-to-Female

CCA521
20.5" CeNET CD Changer (Extension) Cable, Male-to-Female

CAA561
16' CeNET CD Changer (Replacement) Cable, Male-to-Male

C-BUS Cables

CCA273
5' C-BUS Changer Cable, Male-to-Male

CCA306
20" C-BUS Changer Cable, Male-to-Male

CCA306
20" C-BUS Changer Cable, Angle Male-to-Straight Female

CCA308
16' C-BUS CD Changer (Extension) Cable, Male-to-Female

CCA329
16' C-Bus CD Changer (Replacement) Cable, Male-to-Male

CCA350
5' C-Bus CD Changer Cable, Angle Male-to-Angle Male

CCA350
5' C-BUS CD Changer Cable, Angle Male-to-Angle Male

Digital Cables

DCA001
16' Fiber Optic Cable (Old Clarion Connection)

DCA002
5' Fiber Optic Cable (Old Clarion Connection)

DCA005
16' Fiber Optic Connector With New Clarion Connection on Both Ends

DCA006
16' Fiber Optic Connector With Old Clarion Connectors on Source Unit end and New Clarion Connector on Processor End (for DCZ625 and VCZ625 Changer to Connect to DVH940 Processor)

DCA007
16' Fiber Optic Connector With New Clarion Connectors on Source Unit End and Old Clarion Connector on Processor Side (for VRX925VD, VRX935VD, or VS735 to Connect to DVS9755z DVD Player)

DCA008
5' Fiber Optic Connector With New Clarion Connectors on Both Ends

Understanding the Clarion Number System

Source Units/Multimedia Products/Processors

A = Analog

B = Basic

C = Changer

D = Digital

H = Processor

MC = Music Catcher

MP = MP3

R = AM/FM Receiver

T = TV Tuner

V = Video

X = Changer Controller/Controlled

Z = CeNET Bus

• First Number 0 to 9 = Feature Set

• Second Number = Generation

• Third Number = Series

Example

DXZ955MC is a CD receiver/change controller featuring CeNET. It has the highest feature set and is the fifth generation unit in a series of five. The unit also contains Music Catcher.

SIRIUS Satellite Radio

More Than 120 Channels of the Best In-Car Entertainment

Only SIRIUS has 65 original music channels, from today's hits to R&B oldies to classical masterpieces. SIRIUS also offer authentic country and real bluegrass, cool jazz, hot Latin hits, reggae, rock, and much more. SIRIUS also offers 55 channels of world-class sports, news and entertainment, such as ESPN, The Speed Channel, CNBC, Fox News, Radio Disney and E! Entertainment. With SIRIUS, there's something for everybody. Best of all, SIRIUS' programming is hosted by master music programmers and today's hottest on-air personalities. So tune in.

Rely on SIRIUS' Rocket Science for Superior Coverage

Only SIRIUS has three powerful satellites that fly directly above the United States to ensure coast-to-coast coverage. These orbits allow SIRIUS' satellites to broadcast from very high angles for a "clear line of sight," and a direct signal to your car without concern for buildings, trees, or other signal obstructions.

Clarion and SIRIUS: "Trans-Portable" Heaven

From the home to the car to the family picnic, Clarion's new Calypso "Plug & Play" receiver is what true transportability is all about. For home-to-car transportability, Clarion offers the CLHK home kit and CLCK car kit. But that's not all, SIRIUS' more than 120 channels of entertainment can also go to the park or beach with the new Calypso "Boombox."

Calypso: What's Different?

With Calypso, Clarion can still claim to have the smallest, most compact "Plug & Play" SIRIUS unit on the market today. The unit is compatible with any and all audio systems as it offers wireless audio transmission using a built-in FM transmitter. For installation, the home and car kits come with a docking station, RCA connectors, and an antenna.

With 120 channels to chose from, finding what you want may seem difficult, but not with Clarion's new Calypso. The unit has the ability to prompt users when one of their pre-selected favorite songs is playing. It also offers 30 presets, and an easy-to-use rotary knob for channel navigation, as well as category, artist, and music-title scan.

Cosmetically, Calypso sports an attractive piano-like finish and techno-blue illumination. For visibility, Clarion outfits this transportable unit with an attractive 128x48 dot matrix graphic positive display, which scrolls artist, song and channel information across the screen, and offers two selectable font sizes for increased visibility.

Calypso SIRIUS Satellite Radio Plug & Play Receiver

• Category and Artist Search
• Multiple Display Modes
• Infrared Remote
• Selectable FM Transmitting Frequency
• 128x48 Dot Matrix Graphic Positive LCD
• Auto Dimming and Adjustable Contrast and Dimmer
• 30 Presets and Direct Tuning
• Adjustable Audio Output Level
• Clock
• Requires CLCK Car and/or CLHK Home Kits

CLBB Calypso Boom Box

• Detachable 4" Speakers With 1/2" Tweeters
• UV-Protected Speaker Grille Material
• Built-In 10-Watt Amplifier (RMS)
• Digital Volume Control With Z-Bass Equalization
• Auxiliary Input for External Device Connection
• Includes Detachable Antenna for Optimal Reception
• 120-Volt AC Adaptor (Takes 8 D-Cell Batteries)
• Front-Panel Battery Power Indicator

DSC920S Controller for SIRCL2

- Operates SIRIUS Satellite Radio Receiver
- Scrolling Text Display
- Preset Memory Tuning (18 Presets)
- Category/Preset Scan
- Screen Saver

SIRCL2 SIRIUS Satellite Radio Receiver Package

This package includes Clarion's SIRCL1 receiver and SA150 Generation II antenna. The receiver can be controlled using either a CeNET-equipped source unit or by using the DSC920S.

Features:

- CeNET Interface for Direct Operation by all SIRIUS-Ready Clarion Source Units
- L/R RCA Line Level Outputs for Easy Connection to FM200 FM Modulator, as Well as Any Line-Level Input Devices
- CeNET Pass-Through for Connection of CD Changers and Any Other Clarion Products.

Amplifiers and Processors

Clarion's Three-Tier Approach

Clarion's three-tier amplifier line was constructed to address all power needs. All offer high power. The difference is in the approach. The line starts with the APA4300HX, an amplifier designed to compliment Clarion's DRZ9255 both in performance and cosmetics. As you will see, this feature-laden amplifier is what high-end audio is all about.

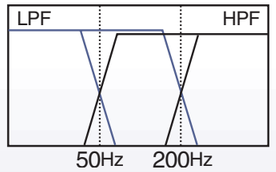
The line continues with the APA4320 and APA2160. These two amplifiers are as versatile as they come — both in features and in cosmetic design. Features include a Bass Extender, high- and low-pass crossovers, Mixed Mode Operation, Speaker Level Inputs, and much more. But the key to these two amplifiers is their compact design — making them the perfect fit for space-limited installations.

Rounding out Clarion's amplifier line are the APA2001, APA450 and APA250. The motto for these three amplifiers is "Power With a Conscience." Why? Offering great power output, these three amplifiers are also priced affordably. Bottom line, if your building a system for a budget-minded customer, these are the amplifiers you need to look to.

Audiophile-Grade Power

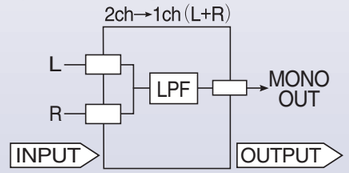
From its exterior color scheme to its refined circuit layout, stable power supply and high-capacity output stage, it's clear the APA4300HX was intended for the serious audio buff. With all channels containing high- and low-pass filters with variable crossover frequencies (50Hz to 20Hz), the amplifier also allows for easy system expansion.

Low Pass & High Pass Filters



The amplifier also offers an input signal mixer function, which uses a bridge to mix the left and right channels. From there, the amplifier outputs both signals via one channel. This is especially useful when driving a mono subwoofer over the amplifier's integrated low-pass filter.

Input Mixing

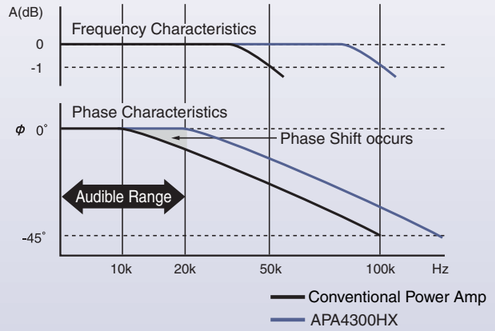


The APA4300HX also incorporates a highly efficient cooling system. This consists of a thermally-balanced cooling tunnel and thermally-operated fan. Coupled with the large cooling surface on the amplifier's housing — which incorporates large tunnel-shaped heat sinks — the amplifier guarantees excellent and safe operation at the output stages, regardless of the loads.

Current Feedback Amplification Circuit

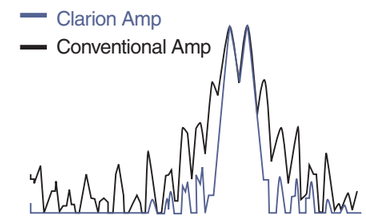
The unique circuit design maximizes the potential of the amplifier, allowing it to realize even ultra-high frequency levels of 100kHz. This wideband, high-speed amplification circuit also ensures stable phase characteristics and response. This circuit layout also adds music dimension, and provides additional harmonic elements while maintaining the main frequency element. The design also prevents phase shifts of high-range frequencies from becoming audible.

Frequency Characteristics/Phase Characteristic



Power Guard Circuit

This by far is the most important feature the APA4300HX offers, as the amplifier's input stage prevents the generation of clipping distortion by holding down the gain when overdrive distortion is detected at the output stage. By removing only distortion elements, the amplifier protects speakers from potential damage while also maintaining the amplifiers superior sound qualities.



4-Part Digital Meter

The APA4300HX offers this unique feature so users will always be in tune with its performance. This four-part digital meter allows the user to monitor the amplifier's real-time power output level and consumption, voltage level and internal temperature.

Low-Loss High-Output Power Supply

Clarion equips the APA4300HX's power supply with a high-performance, low-loss, MOS-FET-based PWM-type DC/DC converter. The amplifier's circuit structure boasts large-capacity, low-impedance capacitors, and a large toroidal choke coil, a super thin circuit board and a copper bus bar. The result is a power supply that maintains stability, even during sudden signal changes.

Toroidal Choke Coils

Used in the power supply circuitry, these type of coils are resistant to magnetic noise and have a low DC resistance. This contributes to the amplifier's high efficiency, low-noise power supply.

Amplifier Technologies

Clarion's amplifier power supply technologies include an input voltage compensation circuit, an active regulator feedback circuit, and voltage-input protection. The incorporated double-sided circuit boards use heavy-duty copper/tin-plated bus bars and direct-mount connectors. Built-in crossovers are standard on all amplifier models. Other features include a discrete driver and high-current output transistor pairs, along with a solid-state muting circuit.

These features provide Clarion's amplifier line with stable and well-protected power supplies, quieter operation, better signal-to-noise ratios and transient response, as well as the ability to handle lower impedance loads. This translates into amplifiers with great reliability and flexibility.

Mixed Mode Operation

This feature is the key behind the versatility of the APA4320 and APA2160 amplifiers. By utilizing an inverting circuit, a single 2-channel amplifier can drive multiple satellite speakers in stereo, as well as a sub-woofer in a bridge mono configuration. This eliminates the need for active crossovers while allowing for a multi-speaker system.

2-Ohm Stability

Clarion APA4320 and APA2160 amplifiers are designed to driver lower impedance loads for increased power output and can be bridged for mono operation across a 2-ohm load. This allows the amplifiers to run multiple speakers in more complex systems. The result is an amplifier that can provide 150% more power in 2-ohm stereo, or more than 300% in 2-ohm bridged mono.

Multi-Channel Amplifiers

Clarion's multi-channel amplifiers provide four channels of amplification on one circuit board, all enclosed in a single chassis. Moreover, all models are equipped with on-board high-pass/low-pass electronic crossovers. This configuration provides maximum system flexibility using a single amplifier. For example, the front channels can drive full-range speakers with front crossovers "off," while rear channels are set to low-pass and bridged to drive a single subwoofer. Or, the front channels can be set to high-pass to drive a pair of satellite speakers, and rear channels set to low-pass to drive a pair of woofers.

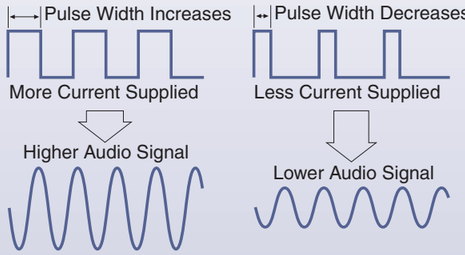
Pulse-Width-Regulated MOS-FET Power Supply

This type of power supply converts the battery voltage to a higher voltage (i.e., +30 volts or greater) than the amplifier requires for maximum power output. Unless the power supply increases 12-volt battery power, the amplifier cannot produce more than about 25 watts (rms). The power supply delivers the proper amounts of current and voltage to the amplifier's output stages over a wide range of loads, and varies the pulse width to accommodate different load conditions.

Pulse-width regulation adjusts the width of the power supply's switching pulses to serve constantly-changing audio power needs. When music dynamics increase, or the volume is raised, the pulses stay on longer to charge the power supply capacitors across the DC rail in the power supply.

By using this type of power supply, Clarion can build a smaller amplifier that generates less heat and is more efficient.

Another advantage to this type of supply is that it can deliver its rated power over a wide range of input voltages. This means the amplifiers will deliver their rated power over a voltage swing of 11.6 to 14.7 volts. The result is an amplifier that can produce maximum power into a 2-ohm load without losing output power under lower voltage conditions.



Amplifier Circuit Information

The input and output of Clarion's amplifiers incorporate complex circuitry for both the input and output sections. This offers better noise suppression, fast transient response and minimum distortion. This includes high-impedance differential input stages, global feedback, and premium devices with very high slew rates.

High-impedance differential input stages separate the input signal ground from the common chassis ground. This creates a very effective ground-loop isolation circuit that reduces the possibility of charging system noise from entering the signal path.

Feedback is a method of controlling the distortion in an amplifier's output by feeding a portion of the output signal to the input of the amplifier. At Clarion, we use global feedback circuits instead of the more commonly-used local feedback type (i.e., the ability of a device to quickly respond to an input signal). This reduces distortion, boosts the signal-to-noise ratio, and increases the amplifier's overall transient response.

These advanced circuit topologies ensure that Clarion's amplifiers will accurately reproduce all the dynamics and subtleties found in today's digital recordings. At the same time, noise suppression circuits work to effectively eliminate induced electrical system noise, which contributes to the dynamic range of the amplifiers.

Cosmetic Design: The APA4320 and APA2160

The versatility these two amplifiers offer is directly related to the compact design both offer. This is made possible by an exclusive heat sink design and aluminum die-cast body, which offers efficient heat dissipation during operation. This eliminates the need for an internal fan, resulting in an amplifier with a smaller footprint. Clarion further enhances the look of the amplifier with a stylish oval-shaped emblem, which incorporates three blue LEDs.

Gold-Plated RCA Connectors and Terminals

Superior conductivity is achieved by using gold-plated RCA and power supply terminals to minimize contact resistance and noise. Moreover, because gold is unaffected by external magnetic fields, magnetic distortion is reduced.

Gapped E-Core Choke Coils

Utilized in the power supply, the Gapped E-Core choke coils offer low impedance and resistance to harmful magnetic impedance. This results in a more efficient amplifier and a low-noise power supply.

Variable High-/Low-Pass Crossover

Amplifiers armed with these two features allows users to make frequency adjustments over all channels so that a multi-amplifier and subwoofer system can be configured with ease.

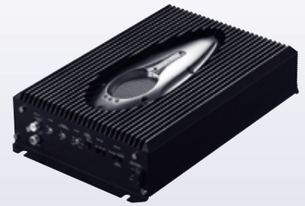
Amplifier Breakdown

APA4300HX4/3/2-Channel Amplifier

- 600 Watts Maximum Power Output
- Bridgeable 3/2-Channel Mode Operation
- Power Guard Circuit
- Low-Loss Power Supply
- Stable Down to 1-Ohm Load in Stereo
- Variable 4-Channel Low- and High-Pass Filter (50 to 200Hz)
- Bass Extender (40Hz to 120Hz, 0 to +12dB)
- Four-Part Digital Display
- Aluminum Housing Built-In Cooling Fan
- Speaker Level Input Terminal
- 100kHz Frequency Reproduction
- Gold-Plated Connectors

APA4320 4/3/2-Channel Amplifier

- 640 Watts Maximum Power Output
- Bass Extender Control (0 to 15dB @ 45Hz)
- Adjustable High- and Low-Pass Crossover (55Hz to 550Hz, 12dB/Oct.)
- Mixed Mode Operation
- 3/2-Channel Operation
- MOS-FET Output Design
- Double-Sided FR4 PC Board
- Gold-Plated RCA Connectors



APA2160 2/1-Channel Amplifier

- 320 Watts Maximum Power Output
- Bass Extender Control (0dB to 15dB @ 45Hz)
- Adjustable High- and Low-Pass Crossovers (55Hz to 550Hz, 12dB/Oct.)
- Mixed Mode Operation
- 2/1-Channel Operation
- MOS-FET Output Design
- Speaker Level Input Terminals
- Double-Sided FR4 PC Board
- Gold-Plated RCA Connectors

APA2001 Mono Amplifier

- 400 Watts Maximum Power Output
- Selectable Bass Boost at 0dB/6dB/12dB
- Adjustable Low-Pass Crossover
- Speaker Level Inputs

APA450 4/3/2-Channel Amplifier

- 400 Watts Maximum Power Output
- Selectable Bass Boost
- Adjustable High/Low-Pass Crossover (50Hz-250Hz)
- Bridgeable 4/3/2-Channel Operation
- Speaker Level Inputs

APA250 2/1-Channel Amplifier

- 200 Watts Maximum Power Output
- Selectable Bass Boost
- Adjustable High/Low-Pass Crossover (50Hz-250Hz)
- Speaker Level Inputs

ON THE CD: detailed specs

Processors: The EQS744 and MCD360

For Full System Control, Try Clarion's 7-Band Graphic Equalizer

Clarion's reputation for manufacturing high-grade equalizer dates back to the dawn of the car audio industry. Bottom line, we know how to put sound enthusiasts in control of their sound system. This legacy continues with the EQS744 7-Band Graphic Equalizer, a unit that offers a high signal-to-noise ration with its 7-volt RCA output, and frequency adjustments in the 50Hz-to-16kHz range over seven bands. This means users get superior sound performance, and the ability to contour their sound system to their musical tastes. Users also benefit from the EQ's 7-volt RCA output, which provides a high signal-to-noise ration for superior system performance. This is especially important when a system is connected to an external audio source, such as a portable DVD player, TV tuner, or VCR, through the AUX input.

Solving Clarion's VRX755VD 2 Zone Feature

As we mentioned in the multimedia section, Clarion's VRX755VD comes equipped with a completely revamped 2 Zone Entertainment feature. The feature does offer more entertainment options, but it also presents a challenge — one that can be overcome by adding either Clarion's EQS744 or MCD360. Instead of utilizing a dedicated line out, the 2 Zone utilizes the non-fade RCA output and transforms it into a fixed level output before sending audio to the rear zone. This could mean bad news if a subwoofer is hooked up, both for the subwoofer and for your customer's ears. That's where the EQS744 and MCD360 come in, as your customer can use the subwoofer level control to control the volume of the VRX755VD's fixed level output.

EQS744 Half-DIN Graphic EQ/Processor

- 7-Band Graphic Equalizer
- Selectable Main and AUX Inputs
- Subwoofer Level Control
- Selectable Low-Pass Frequency: 60Hz or 90 Hz
- 6-Channel/7-Volt RCA Line Level Output

MCD360 3-Way Electronics Crossover

- 18dB/oct. Slope
- Front/Rear Subwoofer Level
- Built-In Bass EQ
- Remote Subwoofer Level Control (Included)
- Cross Frequency Multiplier
- 2/4/6-Channel Inputs/Separate F/R Crossover
- 6-Channel Line Level Outputs

Subwoofers and Speakers

Bringing in the Boom: Clarion's All-New Subwoofers

There's a lot to like about Clarion's new subwoofers, which consist of two competitively-priced lines. Most importantly is the design. Even when installed into a compactly designed enclosure, these new subwoofers can boom with the best of them. There are several reasons for this. One being the Foam-Rubber Composite material used for the surround, which, because it's lighter in weight, allows for a longer, more efficient excursion. Bottom line, Clarion's new subwoofers are perfect for SUVs and pickups where installation space is an issue.

Custom Look

With cosmetics being what they are in today's market, Clarion paid extra special attention to the look of both the SW and SRW series subwoofers. It all starts with the basket frame designs, which offer a distinct look you won't find anywhere else. Even the entry-level SW subwoofers come with a custom-tooled basket. Clarion takes this a step further, outfitting the SRW series with a custom magnet cover that incorporates the Clarion badge.

Polypropylene Woofer Cone

It's true that polypropylene is a widely used speaker cone material, and for good reason. Unlike paper cones, which sometimes add a "crispy" sound, polypropylene cones offer a natural, smoother and well-behaved frequency response. And because of its durability, polypropylene expands the life of your speaker — even in the rigorous in-car environment.

SW Series Common Features

- Polypropylene Cone
- Foam-Rubber Composite Surround
- 4-Ohm Heat-Resistant Voice Coil
- Rear-Vented Pole Piece
- Dual Strontium Ferrite Magnet
- Customer Rubber Magnet Cover
- Optimized for Compact Designed Enclosures
- Custom-Designed Steel Stamped Frame
- Chrome-Plated Connector

SW12X 12" Single Voice Coil Subwoofer

- 600 Watts Maximum Power Handling
- Frequency Response: 20Hz-1.5kHz

SW10X 10" Single Voice Coil Subwoofer

- 600 Watts Maximum Power Handling
- Frequency Response: 20Hz-1.5kHz

SRW Series Common Features

- Polypropylene Woofer Cone
- Foam-Rubber Composite Surround
- Rear-Vented Pole Piece
- Dual Strontium Ferrite Magnet
- Custom Rubber Magnet Cover
- Optimized for Compact Designed Enclosures
- Custom-Designed Steel Stamped Frame
- Chrome-Plated Connector

SRW1285 12" Dual Voice Coil Subwoofer

- Dual 4-Ohm Heat-Resistant Voice Coil
- 750 Watts Maximum Power Handling
- Frequency Response: 20Hz-1.5kHz

SRW1245 12" Single Voice Coil Subwoofer
- 4-Ohm Heat-Resistant Voice Coil
- 750 Watts Maximum Power Handling
- Frequency Response: 20Hz-1.5kHz

SRW1085 10" Dual Voice Coil Subwoofer
- Dual 4-Ohm Heat-Resistant Voice Coil
- 650 Watts Maximum Power Handling
- Frequency Response: 20Hz-1.5kHz

SRW1045 10" Single Voice Coil Subwoofer
- 4-Ohm Heat-Resistant Voice
- 650 Watts Maximum Power Handling
- Frequency Response: 20Hz-1.5kHz

ON THE CD: detailed specs and suggested system layout

ProAudio Speakers

Glass-Fiber Woofer Cone
With its woven glass-fiber material, Clarion's ProAudio speaker cones offer the type of rigidity that will stand up to the rigorous in-car environment. The material also produces little to no distortion because of it ability to prevent the cone from flexing during high input levels. The result is rich full bass that harmoniously melds with tight, accurate music reproduction.

"In-Phase" Coaxial Design
A key component to experiencing natural sound imaging and staging is ProAudio's "In-Phase" Coaxial Design. This tweeter configuration minimizes the phase differential between the woofer and tweeter, preventing time lag between high- and low-frequency sounds from becoming audible to the listener.

Silk Dome Tweeters
It's a well known fact that the most accurate sounding tweeter are those that incorporate silk into the dome. This results in a velvety-smooth treble response. Blending the suppleness and a level of stiffness that provides your sound with superior detail, these silk dome tweeters can sense minute signals even at low input levels.

Full-Featured 2-Way 12dB/Oct. Crossover Network
Comprised of a large coil, and a large capacity capacitor, ProAudio's exclusively designed 2-way passive network achieves a smooth sound transition between the woofers and tweeters.

Dual Neodymium Magnet: Tweeter Performance
For superb sound reproduction, ProAudio tweeters utilize a Dual Neodymium magnet, which boasts extremely high magnetic energy — approximately 10 times that of typical speaker magnets. With a magnetic flux density that far surpasses conventional speakers, the neodymium magnet also reduces magnetic distortion and offers high-energy efficiency.

Strontium Magnet: Bass Performance
There's a reason why Clarion's speaker systems add superior dimension. Equipped with a highly conductive strontium magnet, Clarion's speaker systems offer a magnetic flux density that is significantly higher than conventional ferrite magnets.

Rubber Surrounds
The rolled edge of the surround not only allows for linear movement of the cone, but it also instantaneously stops cone movement after the signal has been reproduced. This prevents unbalanced distortion from reaching the cone and wrinkles that can damage the drive. Whether fielding high or low input levels, this highly elastic rubber surround allows Clarion's speaker systems to deliver smooth, well-balanced music with expansive, low distortion sound over the entire frequency.

Rear-Vented Pole Piece
To prevent pressure from building up inside the center cap, which can result in increased amplitude distortion, an air vent is positioned to the rear of the pole piece. This not only prevents the voice coils from overheating, but also increases air output from the woofer duct, resulting in smooth cone movement.

ON THE CD: detailed specs and suggested system layout

SRS1685 6 1/2" Woofer and 3/4" Tweeter With Crossover
- 2-Way Tweeter Mounting (Variable-Angle Flush or Surface)
- High-Grade -12db/oct., 2-Way Crossover Network (Includes Level Antenuator)
- 200 Watts Maximum Power Output
- Includes GM and Chrysler Adaptor

SRR1685 "In Phase" 6 1/2" Coaxial Speaker
- "In-Phase" Coaxial Design
- 80 Watts Maximum Power Handling
- GM and Chrysler Adaptor

SRR6985
- 6" x 9" Woofer Cone
- 1" Tweeter
- 280 Watts Maximum Power Handling

SRC5795
- 5" x 7" 2-Way Plate Speaker
- 5" Woofer Cone
- 3/4" Tweeter
- 150 Watts Maximum Power Handling

SRC4695
- 4" x 6" 2-Way Plate Speaker
- 4" Woofer Cone
- 3/4" Tweeter
- 140 Watts Maximum Power Handling

ON THE CD: detailed specs

Phaze 1 Speakers

When it comes to Clarion's Phaze 1 speakers, the line actually consists of two. There's the silver series and the black series. You can see the difference in the cosmetics. Think of the silver series as Clarion's mid-level speakers — perfect for customers looking for a great sounding, yet reasonably priced speaker to link to an external amplifier. As for the black series, think of it as the perfect factory replacement speaker, as it adds better sound at factory-level-rated power.

Clarion also incorporates a balanced-drive PEI dome for the tweeter, which offers great durability and long lasting music enjoyment. Clarion also utilizes a PEI material for the mid-range cones, which offers excellent frequency characteristics and excellent SPL.

Metallized Mica-Injected Polypropylene Cone
The metallized-injected polypropylene compound material utilized by the silver series woofer cones provides the lightness and rigidity demanded of today's speakers. Even when fielding fast transients, these Phaze 1 speakers generate superior dynamic response and crystal clear sound with very low distortion.

Rear-Vented Pole Piece
Sporting an innovative design that prevents pressure buildup inside the dust cap, Clarion equips its Phaze 1 speakers with an air vent located to the rear of the pole piece. This not only prevents the voice coils from over-heating, but also increases the air output from the woofer duct. This results in smoother cone movement.

Phaze 1 Coaxial Speakers
The reason behind the great sound offered by Clarion's Phaze 1 speakers is their unique coaxial design. Clarion does this by aligning the phases of the woofer and tweeter, resulting in a smoother frequency response and a more accurate sound field position.

Metallized PEI Balanced Drive Tweeter
Because of its superior physical properties that result in clearer output, polyether imide boast high rigidity, high durability and high resistance to extreme heat. That's why Clarion has outfitted its Phaze 1 Balanced Drive Tweeters with an integrated PEI diaphragm and voice coil bobbin, as it dramatically improves the dynamic range of any sound system.

Metallized PEI Tweeter Cone
Clarion's metallized PEI tweeter cone is impervious to heat and other ambient conditions prevalent inside a vehicle. This metallized cone creates an ultra-lightweight diaphragm, resulting in high efficiency and very fast dynamic range.

Silver Series Phaze 1

SRS1625
- Separate Speaker With 1" PEI Tweeter
- 6 1/2" Woofer Cone
- 1" Balanced-Drive Tweeter
- 2-Way Mounting Tweeter (Flush/Surface)
- In-Line -6dB/oct. Crossover Network
- 180 Watts Maximum Power Handling
- GM & Chrysler Adaptor

SRR1635
- 3-Way Speaker System
- 6 1/2" Woofer
- 1 3/16" Balanced-Drive Mid-Range
- 5/16" Dome Tweeter
- 200 Watts Maximum Power Handling
- GM & Chrysler Adaptor

SRR1627
- Coaxial Speaker
- 6 1/2" Woofer
- 1 3/16" Balanced-Drive Tweeter
- 180 Watts Maximum Power Handling
- GM & Chrysler Adaptor

SRR1325
- Coaxial Speaker System
- 5 1/4" Woofer
- 1" Balanced-Drive Tweeter
- 140 Watts Maximum Power Handling

SRR6935
- 3-Way Speaker System
- 6" x 9" Woofer
- 2 5/8" Mid-Range
- 5/8" Tweeter
- 250 Watts Maximum Power Handling

SRR1027
- 4" Coaxial Speaker
- 4" Woofer
- 1" Tweeter
- 120 Watts Maximum Power Handling

Black Series

SRR1615
- Coaxial Speaker System
- 6 1/2" Woofer
- 1" Balanced-Drive Tweeter
- 140 Watts Maximum Power Handling
- GM & Chrysler Adaptor

SRR6915
- Coaxial Speaker System
- 6" x 9" Woofer
- 2 5/8" Tweeter
- 180 Watts Maximum Power Handling

SRC5715
- Coaxial Speaker System
- Designed for Direct OEM Replacement
- 5" x 7" Woofer
- 1" Balanced Driver Tweeter
- 140 Watts Maximum Power Handling
- 6" x 8" Ford & Mazda Adaptor

SRC4615
- Designed for Direct OEM Replacement
- 4" x 6" Woofer
- 1" Balanced-Drive Tweeter
- 100 Watts Maximum Power Handling

SRC925
- Coaxial Speaker System
- Designed for Direct OEM Replacement
- 3 1/2" Woofer
- 1" Tweeter
- 80 Watts Maximum Power Handling

SRH205
- 3/4" Tweeter
- 2-Way Mounting Tweeter (Flush/Surface)
- In-Line -6 dB/oct. Crossover Network
- 150 Watts Maximum Power Handling

Marine Audio

Making Waves With Top-Notch Audio Entertainment

There's nothing like spending a day out on the water — friends, family, food, drink and some tunes. It inspires a feeling you can't get anywhere else. It's this feeling that Clarion has been in pursuit of for years, creating products that not only sound good, but were made specifically for the marine environment…Introducing Clarion's 2005 marine-based product line. In this section, you will see three new source units, two new wired source-unit remotes, a powerful amplifier line, and an all-new speaker line that speaks to Clarion's motto in 2005: "Bigger is better."

Setting the Standard

When we make marine-based source units, we don't just slap on marine-like cosmetics and call it a day. What we have done is spent years perfecting our ability to design and engineer water-resistant and UV-resistant source units. Introducing Clarion's new CMD4, a source unit designed to resist splashdowns, rain, and whatever the marine environment throws its way. The difference is more features, and an all-new cosmetic design.

Quick Release Door With Watertight Seal

Clarion's unique rubber gasket and door assembly offer the CMD4's internal components complete water protection. Enduring 10,000 duty cycles of testing, this type of innovation is nothing new to Clarion. Our designs have been the industry reference for years, offering unparalleled durability under extreme conditions. This design also allows for easy, one-touch CD loading, making the unit both functional and reliable.

Integrated Drip Shield, Mounting Gasket and Bracket

This design protects the source unit's chassis from front-panel leakage and seals the bulkhead to further augment the water-resistant faceplate equipping the CMD4. This design also provides maximum chassis support and allows for easy installation.

iPod Control: The EA1251B

Clarion's new EA1251B iPod source-unit interface is also compatible with the CMD4 and M455. Mirroring the control of a CD Changer, the interface requires the user to create six playlists. The title of each must contain the word "clarion (no caps)" followed by the playlist number (i.e., clarion1 or clarion2). The first playlist automatically collects all songs loaded into the iTunes program. The user can personalize the remaining five.

EA1251B Connectivity

- The CMD4 and M455 cannot display song titles when operating the iPod via the interface.
- The interface is not equipped with a pass-through CeNET connection. Installers must use Clarion's CCA519 to connect additional CeNET-controlled components.

Source Unit Breakdown

M255 AM/FM Marine CD Player
- Plays CD-R/RW
- Magna Bass EX
- Z-Enhancer
- 200 Watts (50 Watts x 4 Channel) of Max Power Output
- 2-Channel RCA Line Level Output
- Rotary Volume Control
- Magi-Tune Tuner With 18FM/6AM
- Detachable Control Panel

M455 AM/FM Marine CD Player

Step-Up Features:

- iPod Ready
- Pelgan Z Coated Circuit Board for Marine Use
- 2-Band Parametric EQ (Z-Enhancer)
- Built-In Adjustable Low-Pass Crossover: 50Hz/80Hz/120Hz
- 208 Watts (50 Watts x 4 Channel) Max Power Output
- 4-Channel RCA Line Level Output
- Screen Saver With User-Programmable Message Information
- Adjustable Display Contrast
- CD Text, CD and Station Titling
- CeNET Control: TV Tuner, 6-Disc CD Changer, SIRIUS Satellite Radio Receiver
- Adjustable AUX Input
- Wired Remote Ready

CMD4 AM/FM Marine CD Player With Water-Resistant Front Panel

Step-Up Features:

- Watertight, Flip-Down Faceplate With Drip Shield and UV-Resistant Controls
- 212 Watts (53 W x 4 Ch.)
- Built-In Subwoofer Crossover: 60Hz/100Hz/200Hz
- 6-Channel RCA Line Level Output
- Adjustable AUX Input

Marine Remotes

Clarion's new wired remote controls let users manage their Clarion marine source unit from just about anywhere inside the boat. Users can adjust volume, track selection, play/pause, disc up and down, power on and off, radio band, source, and mute.

CMRC1-SB Marine Remote Controller With LCD for CMD4 and M455

CMRC2-SB Marine Remote Controller Without LCD for CMD4 and M455

Bigger is Better: Marine Speakers

That's our motto in '05. Here's why:

- Three new speakers
- An all-new Sport Series line, which includes a 7" coaxial speaker and a 10" subwoofer
- Three new 6 1/2" speakers

The Industry Reference

What makes Clarion's marine speakers the best? Attention to detail. We pride ourselves on our speakers' ability to reproduce sound that's second to none. From the titanium dome tweeters to the polypropylene mid-woofer cone, rubber insulated leads, and gold-plated terminals, Clarion's marine speakers were made to handle the marine environment. We take it a step further when comes to the speaker grilles and frames, creating them out of a non-corrosive, high-impact material called Centrex 814. Its properties make it resistant to cracking and discoloration.

Common Features:

- Meets or Exceeds ASTM B117 (Salt/Fog Explosure)
- Meets or Exceeds ASTM 04329 (UV Exposure)
- Santoprene Rubber Surround
- High-Impact Centrex 814 Grille/Frame
- Protected Magnet and Rear Cone Design
- Liquid Drainage Channel
- Rubber Insulated Tinsel Leads
- Speaker Cable Support Tab
- Gold-Plated Speaker Terminals
- Stainless Steel Mounting Hardware
- Rubber Mounting Gasket

CMCS7.1 7" Component Marine Speaker System

- 7" Polypropylene Cone
- 1.2" Titanium Dome Tweeter
- Flush and Surface Tweeter Mounts
- Integrated Passive Crossovers
- 160 Watts Max Power Handling

CMCX7.1 7" Coaxial Marine Speaker

- 7" Polypropylene Cone With 1.2" Titanium Dome Tweeter
- 160 Watts Max Power Handling

CMDC7.1 7" Dual Cone Marine Speaker

- 7" Dual Polypropylene Woofer Cone
- 120 Watts Max Power Handling

CMSW10.1 10" Marine Subwoofer

- 10" Polypropylene Cone
- Optimized for Infinite Baffle Application
- 350 Watts Max Power Handling

CMCS7.1s Sport Series 7" Coaxial Marine Speaker

- 7" Polypropylene Woofer Cone With 1.2" Titanium Dome Tweeter
- New Cosmetic Design
- 160 Watts Max Power Handling

CMSW10.1s Sport Series 10" Marine Subwoofer

- 10" Polypropylene Woofer Cone
- New Cosmetic Design
- 350 Watts Max Power Handling

CM1635 6 1/2" Component Marine Speaker System

- 6 1/2" Polypropylene Woofer Cone
- 1" Titanium-Coated Tweeter
- 100 Watts Max Power Handling

CM1625 6 1/2" Coaxial Marine Speaker

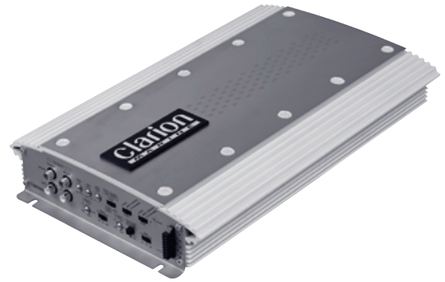
- 6 1/2" Polypropylene Woofer Cone With Titanium-Coated Tweeter
- 100 Watts Max Power Handling

CM1605 6 1/2" Dual Cone Marine Speaker

- 6 1/2" Dual Polypropylene Woofer Cone
- 100 Watts Max Power Handling

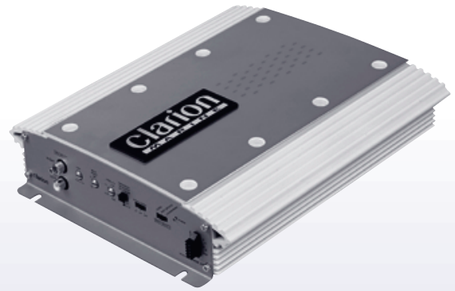
Marine Power Amplifier

A marine amplifier is essential in marine applications where high ambient noise, such as wind, water and engine noise, competes with the sound system. Without an amplifier, cranking up the volume only means one thing: increased distortion and damage to your speakers. It's a known fact in the audio world that an amplifier does more than increase a system's volume level. It reduces distortion at high volume levels, resulting in music reproduction that's crisp, clean and powerful.



APX480M 4/3/2-Channel Power Amplifier

- 640 Watts of Max Power Output
- Continuous 320-Watt Average Power Output
- Typical 2-Ohm Stereo 115 Watts x 4 Channels @ .05% THD
- Bass Extender Control (0-15dB @ 45Hz)
- Adjustable High-/Low-Pass Crossovers (55-550Hz, 12dB/Oct.)
- Mixed Mode Operation
- 4/3/2-Channel Operation
- MOS-FET Output Design
- Speaker Level Inputs
- Fully Painted Non-Corrosive Heat Sink
- Conformally-Coated Double-Sided FR4 PC Board



APX280M 2/1-Channel Power Amplifier

- Maximum 320 Watts of Max Power Output
- Continuous 160 Watts Power Output
- Typical 2-Ohm Stereo 125 Watts x 2 Channels @.2% THD
- Typical Bridged Power 1kHz 250 Watts x 1 Channel @ 0.2% THD
- Bass Extender Control (0-15dB @ 45Hz)
- Adjustable High-/Low-Pass Crossovers (55-550Hz, 12dB/Oct.)
- Mixed Mode Operation
- Speaker Level Inputs
- Fully Painted Non-Corrosive Heat Sink
- Conformally-Coated Double-Sided FR4 PC Board

Notes